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8601X United States Department of Agriculture, BUREAU OF PLANT INDUSTRY, Seed and Plant Introduction and Distrbution, WASHINGTON, D. C. ORCHARD GRASS (Dactylis glomerata).

Orchard grass is a well-known standard grass which is grown to some extent in every State in the Union and quite commonly in the region east of the Mississippi River and north of the northern portions of Alabama and Georgia. It attains most importance, however, in Kentucky, southern Indiana, Tennessee, North Carolina, Virginia, West Virginia, and Maryland, and seems quite thoroughly adapted to a variety of soils in these States.

This grass possesses certain objectionable features which have greatly interfered with its popularity in the general region where timothy can be successfully grown. These features are mainly its bunchy habit and the tendency of the hay which it produces to be unpalatable, especially when it is not cut at the proper stage of maturity. However, in most sections where timothy can not be grown successfully, orchard grass is considered a very valuable grass, and few objections are raised to the quality of hay which it produces.

Secdung.—In the sections where orchard grass is of most importance it is customary to sow the seed in February or early spring on fall wheat at the rate of 3 pecks to 1 bushel per acre. This amount is used in case the crop is to be grown for seed; otherwise a larger quantity is sown, even as much as 2 bushels in many sections. Seed may be sown in the autumn with good results, but in most cases fall seeding has no advantage over spring seeding. It is sown thin when desired for seed, as it produces more abundantly when in this condition. It is usually sown broadcast, either by hand, wheelbarrow, or other type of seeder, as it does not feed well through a press drill. One of the most important points in seeding is to cover the seed very lightly, since covering too deeply frequently results in a failure to secure a stand. A good stand of grass may be secured by scattering orchard-grass straw from which the seed has been thrashed on ground that has been sown to wheat. This is usually done in February. The straw acts as a nulleh and at he seed needs no covering. When

crease the yield. Orchard grass matures well with tall meadow oat-grass and meadow fescue, and in some localities a mixture of it with the latter is attracting considerable attention.

Life of meadows.—Orchard grass is a more hardy and permanent grass than timothy, and as a result remains productive in a meadow under most conditions much longer. In general the life of a meadow is from five to seven years, but it is probable that it would give better results by breaking up at the end of four years. In a large part of the area where it is grown, redtop and the bluegrasses have a tendency to run it out after it has been in the field for more than three or four years. This depends somewhat on the treatment, especially whether the grass is used for hay or pasture. Pasturing seems to facilitate the growth of the bluegrass by causing the orchard grass to be more bunchy, and it is also the means of spreading the bluegrass seed.

Use and value.—According to chemical analysis, orchard-grass hay should be equal if not superior to timothy, but in real practice it does not seem to be able to compete successfully with the latter. In large cities at the present time there is practically no demand for any hay except timothy, and the demand for orchard-grass hay sin ly local and very limited. In the timothy region orchard grass is looked upon unfavorably, but where timothy can not be grown successfully it is used to quite an extent and is considered of very good quality. If the grass is sown at the rate of about 2 bushels per acre, so that it makes a thick stand, the quality of the hay will be much improved. Its value is also increased by the addition of red clover or alsike, and where it is grown with tall meadow oat-grass or meadow fescue its quality seems to improve with such mixtures. To obtain best results for hay it should be cut when it is just in bloom, as at that time the quality seems to be the best and the yield is at the maximum. The hay is fairly good feed for horses, but is more valuable for cattle, especially for

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